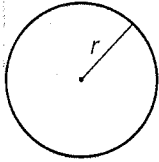
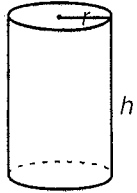


### Circle



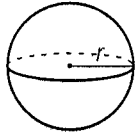
$$\text{Area} = \pi r^2$$
$$\text{Circumference} = 2\pi r$$
$$\text{Circumference} = \pi d$$

### Cylinder



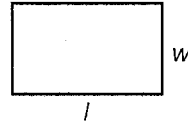
$$\text{Volume} = \pi r^2 h$$
$$\text{Surface Area} = 2\pi r^2 + 2\pi r h$$

### Sphere



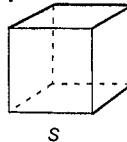
$$\text{Volume} = \frac{4}{3}\pi r^3$$
$$\text{Surface Area} = 4\pi r^2$$

### Rectangle



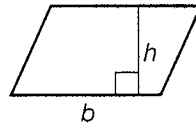
$$\text{Area} = lw$$
$$\text{Perimeter} = 2l + 2w$$

### Cube



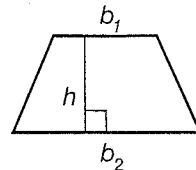
$$\text{Volume} = s^3$$
$$\text{Surface Area} = 6s^2$$

### Parallelogram



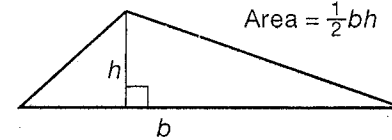
$$\text{Area} = bh$$

### Trapezoid



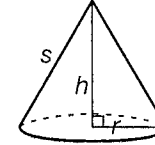
$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$

### Triangle



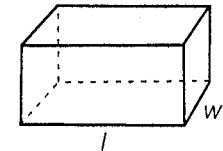
$$\text{Area} = \frac{1}{2}bh$$

### Cone



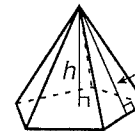
$$\text{Volume} = \frac{1}{3}\pi r^2 h$$
$$\text{Surface Area} = \pi r^2 + \pi r s$$

### Rectangular Prism



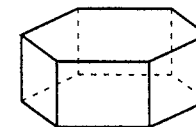
$$\text{Volume} = lwh$$
$$\text{Surface Area} = 2wl + 2lh + 2wh$$

### Right Pyramid



$$\text{Volume} = \frac{1}{3} \times \text{base area} \times h$$
$$\text{Surface Area} = \text{base area} + \text{face areas}$$

### Right Prism



$$\text{Volume} = \text{base area} \times h$$
$$\text{Surface Area} = \text{base areas} + \text{face areas}$$

# Geometric Formulas